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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767,029	01/28/2004	Liu Jun Zhang	12553/101	4738
7590 03/28/2006			EXAMINER	
KENYON & KENYON			DAVIS, DAVID DONALD	
Suite 600 333 W. San Carlos Street			ART UNIT	PAPER NUMBER
San Jose, CA 95110-2711			2627	

DATE MAILED: 03/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/767,029	ZHANG ET AL.			
Office Action Summary	Examiner	Art Unit			
	David D. Davis	2652			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on	_•				
	action is non-final.				
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-13 and 27-30</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>27-30</u> is/are allowed.					
6) Claim(s) is/are rejected.					
7)⊠ Claim(s) <u>2-5</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te atent Application (PTO-152)			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom reprioation (FTO-192)			

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. Receipt is acknowledged of the Information Disclosure Statement (IDS) received January 28, 2004.

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1, 6-8, 12 and 13 is rejected under 35 U.S.C. 102(b) as being anticipated by Inaba (US 5,844,753). As per claim 1, Inaba shows in figure 3 a system for manufacturing a hard disk drive arm 10 including a U-shaped connector 8 to couple a relay flexible cable to a voice coil carriage assembly. The U-shaped connector 8 includes a plurality of generally parallel plates, as

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shown in figure 1. The parallel plates include at least one bonding pad 6 to electrically couple the relay flexible cable to a head gimbal assembly (HGA) flexure cable.

As per claim 6, in column 3, lines 50-56 Inaba discloses the bonding pad 6 coupled to at least one connecting pad 13 on HGA flexure cable by a conductive bonding agent. As per claim 7, column 3, lines 50-56 of Inaba also discloses the bonding agent including a plurality of electrically conductive particles. As per claim 8, column 3, lines 50-56 additionally discloses the bonding agent being compressed between bonding pad 6 and connector pad 13, and a number of particles form an electrical path between the bonding pad 6 and the connecting pad 13.

As per claim12, Inaba shows in figure 3 the U-shaped connector 8 having four bonding pads 6 and the HGA flexure cable having four connecting pads 13. As per claim 13, Inaba discloses in column 3, lines 50-56 that bonding pads 6 and the connecting pads 13 are gold coated.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inaba (US 5,844,753). Inaba discloses the claimed invention. See description supra. However, Inaba is silent as to an Anisotropic Conductive Film (ACF), a voice coil carriage assembly being molded polymer resin or stamped from aluminum.

Official notice is taken of the fact that ACF and a voice coil carriage assembly being formed from resin or aluminum is notoriously old and well known in the disk drive art.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to utilize an Anisotropic Conductive Film (ACF) and resin or aluminum in a voice coil carriage assembly as taught in the art in the system of Inanbe. The rationale is as follows: one of ordinary skill in the art at the time the invention was made would have been motivated to utilize Anisotropic Conductive Film (ACF) and resin or aluminum in a voice coil carriage assembly, which is well within the purview of a skilled artisan and absent an unobvious result, because of the materials are able to be readily procured and easily utilized during the manufacturing process.

Allowable Subject Matter

9. Claims 27-30 are allowed.

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10. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David D. Davis whose telephone number is 571-272-7572. The examiner can normally be reached on Monday thru Friday between 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne D. Bost can be reached on 571-272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bavid D. Davis

Primary Examiner

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